for those resources. For instance, the ~~salve~~ slave requesting a copy of a file block may determine that the failure was due to insufficient disk space in the requesting slave, or that it was unable to read the received file block from its own storage, in which case the slave's message will indicate that the failure occurred in the requesting slave. In one embodiment, if the requesting slave is unable to determine that a failure occurred in the requesting slave, then the presumption will be that the failure occurred elsewhere, in which case the Failure Count for all other resources involved in the copy operation will be incremented.

IN THE DRAWINGS

Figures 1 and 2B have been amended to correct typographical errors.

Red-line copies of Figures 1 and 2B are enclosed.

REMARKS

Applicants have revised claims [0026], [0042], [0044], [0053], and [0065], and Figures 1 and 2B to correct typographical errors. No fees are believed due in connection with this response. However, the Commissioner is authorized to charge all required fees, fees under 37 C.F.R. § 1.17 and all required extension of time fees throughout the pendency of this application, or credit any overpayment, to MORGAN, LEWIS & BOCKIUS LLP Deposit Account No. 50-0130 (order number 060963-0006-0090-US).

Respectfully submitted,

Date: October 22, 2004

Dion M. Bregman   45,645   (Reg. No.)

MORGAN, LEWIS & BOCKIUS LLP
2 Palo Alto Square
3000 El Camino Real, Suite 700
Palo Alto, California 94306
(650) 843-4000

4

100

Datacenter 4 (DC4)
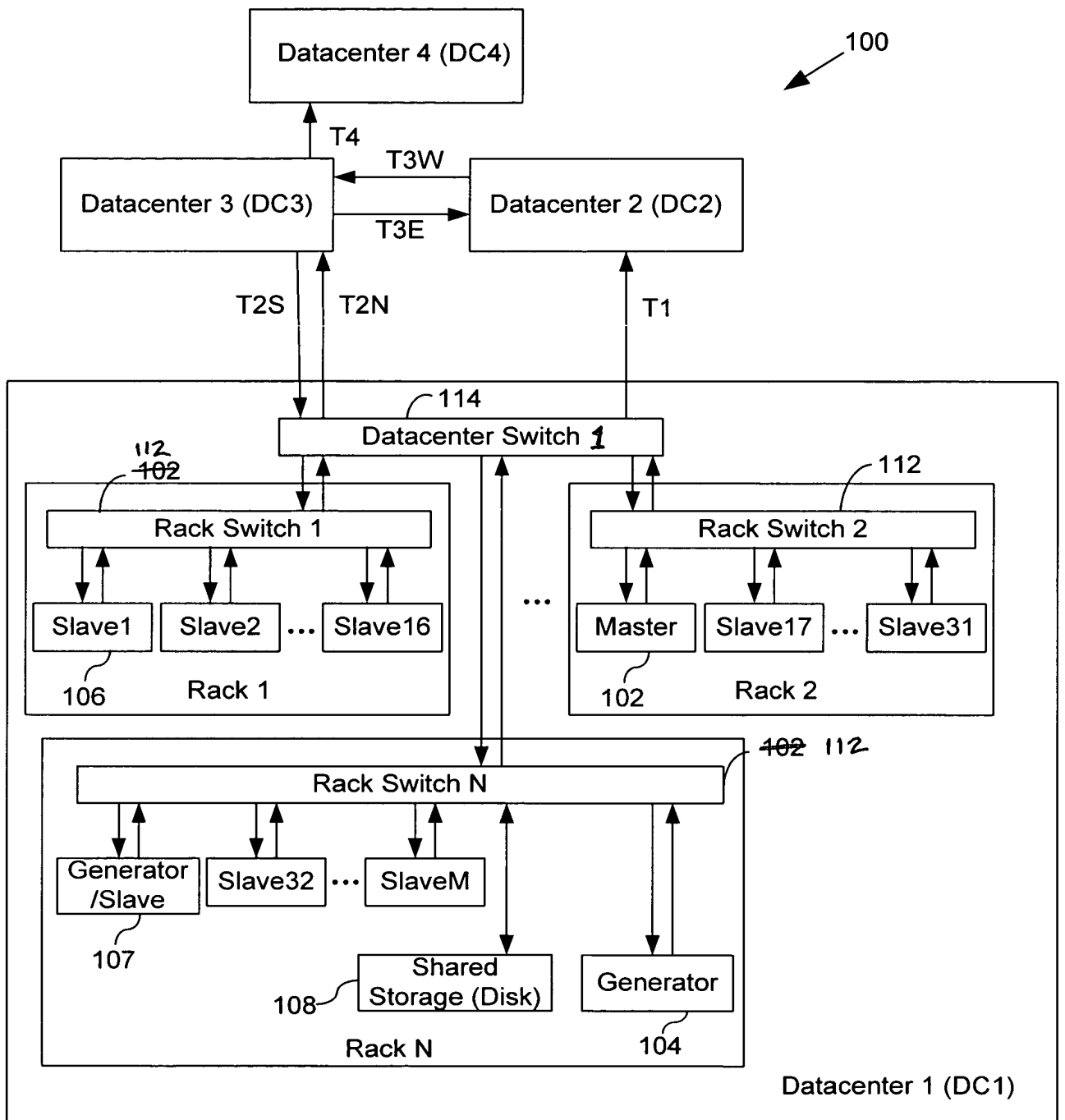
↑ T4

Datacenter 3 (DC3) ←—T3W— Datacenter 2 (DC2)
—T3E→

T2S T2N   T1

┌───┐
│   ┌─114   │
│   Datacenter Switch **1**   │
│ 112   │
│ 102   ┌─112   │
│ ┌──────────────────────────┐   ┌──────────────────────┐│
│ │   Rack Switch 1   │   │   Rack Switch 2   ││
│ │   │   │   ││
│ │ Slave1 Slave2 ... Slave16│ │ Master Slave17 ... Slave31│
│ │   106   Rack 1   │   │ 102   Rack 2   ││
│ └──────────────────────────┘   └──────────────────────┘│
│   102   112   │
│ ┌──┐   │
│ │   Rack Switch N   │   │
│ │   │   │
│ │ Generator Slave32 ... SlaveM   │   │
│ │ /Slave   │   │
│ │   107   Shared   Generator   │   │
│ │   108 Storage (Disk)   │   │
│ │   104   │   │
│ │   Rack N   │   │
│ └──┘   │
│   Datacenter 1 (DC1)   │
└───┘

FIG. 1

FileSet 224

FileID	Version
File001	022
File002	025
File002abc	002

225

⋮   ⋮

FIG. 2B

Slave State 226

FileID	Version	File Size
FileSet07	096	10KB
File001	022	0
File002	025	16MB
File002abc	002	64MB
⋮	⋮	⋮

FIG. 2C

Data File 228

Block 1	Block 2	...

Checksum File 230

CS1	CS2	...

FIG. 2D